Fwd. & Bwd. Refs.

Refine Search 09/192279

Search Results -

Terms	Documents
L6 and (zero$ same ((tag$4 or label$3) with decrypt$3))	0

Database:

US Pre-Grant Publication Full-Text Database
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Search:

L7

[Refine Search]

[Recall Text ⬍]   [Clear]   [Interrupt]

Search History

DATE: Tuesday, June 07, 2005   <u>Printable Copy</u>   <u>Create Case</u>

Set Name side by side	Query	Hit Count	Set Name result set
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L7</u>	L6 and (zero$ same ((tag$4 or label$3) with decrypt$3))	0	<u>L7</u>
<u>L6</u>	(5768384 | 4463250 | 5822739 | 5598477 | 5384846 | 5420924 | 3833795 | 5818021 | 5426700 | 5367148 | 5592561 | 6073114 | 4879747 | 5422954 | 6105004 | 5666421)![PN] or l2	45	<u>L6</u>

DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

| L5 | (5768384 \| 4463250 \| 5822739 \| 5598477 \| 5384846 \| 5420924 \| 3833795 \| 5818021 \| 5426700 \| 5367148 \| 5592561 \| 6073114 \| 4879747 \| 5422954 \| 6105004 \| 5666421)![PN] or l2 | 28 | L5 |

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD;
THES=ASSIGNEE; PLUR=YES; OP=OR

L4	(5768384 | 4463250 | 5822739 | 5598477 | 5384846 | 5420924 | 3833795 | 5818021 | 5426700 | 5367148 | 5592561 | 6073114 | 4879747 | 5422954 | 6105004 | 5666421)![PN]	33	L4
L3	('6442276'| 'US 6442276B'| 'US 5768384A'| '5768384') [PN]	4	L3
L2	('6442276'| 'US 6442276B'| 'US 5768384A'| '5768384') [URPN]	12	L2
L1	5768384.pn. or 6442276.pn.	4	L1

END OF SEARCH HISTORY

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	(("5768384") or ("6442276")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/07 10:27
L2	15	("5384846" | "5420924" | "5426700" | "5592561" | "5666421").PN. OR ("5768384"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/07 10:27
L3	16	("3833795" | "4463250" | "4879747" | "5367148" | "5422954" | "5592561" | "5598477" | "5768384" | "5818021" | "5822739" | "6073114" | "6105004").PN. OR ("6442276").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/07 10:28
L4	0	L2 and (zero$ same ((tag$4 or label$3) with decrypt$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/07 10:33
L5	0	L2 and (zero same ((tag$4 or label$3) with decrypt$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/07 10:34
L6	0	L3 and (zero same ((tag$4 or label$3) with decrypt$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/07 10:34
L7	0	L3 and zero and ((tag$4 or label$3) with decrypt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/07 10:35
L8	0	L2 and zero and ((tag$4 or label$3) with decrypt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/07 10:35

Refine Search *09/182279*

Search Results -

Terms	Documents
(5768384 | 4463250 | 5822739 | 5598477 | 5384846 | 5420924 | 3833795 | 5818021 | 5426700 | 5367148 | 5592561 | 6073114 | 4879747 | 5422954 | 6105004 | 5666421)![PN] and ((crypto$ or decrypt$ or encrypt$) with (tag$ or label$)) and zero$	1

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Search: L8

Refine Search

Recall Text Clear Interrupt

Search History

DATE: Tuesday, June 07, 2005   Printable Copy   Create Case

Set Name Query side by side	Hit Count	Set Name result set
DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
L8 (5768384 | 4463250 | 5822739 | 5598477 | 5384846 | 5420924 | 3833795 | 5818021 | 5426700 | 5367148 | 5592561 | 6073114 | 4879747 | 5422954 | 6105004 | 5666421)![PN] and ((crypto$ or decrypt$ or encrypt$)	1	L8

backward ref.

L7	with (tag$ or label$)) and zero$ (5768384 | 4463250 | 5822739 | 5598477 | 5384846 | 5420924 | 3833795 | 5818021 | 5426700 | 5367148 | 5592561 | 6073114 | 4879747 | 5422954 | 6105004 | 5666421)![PN]	16	L7
L6	('6442276'| '5768384')[PN]	2	L6
L5	l2 and ((crypto$ or decrypt$ or encrypt$) with (tag$ or label$)) and zero$	1	L5
L4	l2 and ((crypto$ or decrypt$ or encrypt$) with (tag$ or label$)) and (zero$ with proto$)	0	L4

DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

Forward ref.

L3	('6442276'| '5768384')[URPN] and ((crypto$ or decrypt$ or encrypt$) with (tag$ or label$)) and (zero$ with proto$)	0	L3

DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

L2	('6442276'| '5768384')[URPN]	12	L2
L1	5768384.pn. or 6442276.pn.	2	L1

cited closest art

END OF SEARCH HISTORY

Not using "zero-knowledge protocol."

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L9: Entry 1 of 1   File: USPT   Jun 16, 1998

US-PAT-NO: 5768384
DOCUMENT-IDENTIFIER: US 5768384 A

TITLE: System for identifying authenticating and tracking manufactured articles

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY
Berson; William   Weston   CT

ASSIGNEE-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY   TYPE CODE
Pitney Bowes Inc.   Stamford   CT   02

APPL-NO: 08/ 623078   [PALM]
DATE FILED: March 28, 1996

INT-CL: [06] H04 L 9/00

US-CL-ISSUED: 380/23; 380/51, 705/11, 705/28
US-CL-CURRENT: 705/50; 235/385, 380/51, 705/11, 705/28, 713/178

FIELD-OF-SEARCH: 380/51, 380/23, 283/74, 705/11, 705/28, 705/29

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected   Search ALL   Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5384846	January 1995	Berson et al	
☐	5420924	May 1995	Berson et al.	
☐	5426700	June 1995	Berson	
☐	5592561	January 1997	Moore	380/51 X
☐	5666421	September 1997	Pastor et al.	380/51

ART-UNIT: 224

PRIMARY-EXAMINER: Dombroske; George M.

ASSISTANT-EXAMINER: Felber; Joseph L.

ATTY-AGENT-FIRM: Reichman; Ronald Scolnick; Melvin J. Meyer; Robert

ABSTRACT:

This invention relates to a system for identifying, authenticating and tracking
articles of manufacture throughout their manufacturing and distribution channels.
The foregoing system utilizes: manufacturing meters that are located at authorized
manufacturing locations and produce encrypted data that is uniquely associated with
each manufactured article; a printer located at the authorized manufacturing
locations so that the printer will print the information encrypted by the meter,
which encrypted information is affixed to the manufactured article; a data center
coupled to the manufacturing meters and located at a site remote from the
manufacturing meters; means for producing information that identifies the
manufactured articles; and a plurality of means located where the authenticity of
the manufactured articles are checked by comparing the encrypted information on the
article with the information produced that identifies the article.

22 Claims, 3 Drawing figures

☐ ▓▓▓ Generate Collection ▓▓▓   Print

L9: Entry 1 of 1   File: USPT   Jun 16, 1998

DOCUMENT-IDENTIFIER: US 5768384 A
TITLE: System for identifying authenticating and tracking manufactured articles

Brief Summary Text (5):
A bar code is a set of binary numbers. It consists of black bars and white spaces.
A wide black bar space signifies a one and a thin black bar or space signifies a
zero. The binary numbers stand for decimal numbers or letters. There are several
different kinds of bar codes. In each one, a number, letter or other character is
formed by a certain number or bars and spaces.

Brief Summary Text (15):
Manufacturing meters are used to create unique encrypted labels or tags which are
associated with and affixed to the manufactured article from the moment the article
is manufactured. The label or tag contains a time stamp and some identification of
the manufactured article. The manufactured article may be identified by the
following manufacturing information: the location in which the article was
manufactured; the machine that produced the article; the person who operated the
machine that produced the article; and the serial number of the article, etc. The
manufactured article may also be identified by having information that may be used
downstream in the distribution chain. For instance, the customs rating code, and
shipping manifest data. The manufacturing and distribution chain information is
encrypted and/or secured with a digital signature and printed as a code on the
aforementioned label or tag. The code may be encrypted and be visible or invisible
to the unaided human eye. The data center is in periodic communication with the
manufacturing meters and is used to distribute encryption certificates to the
manufacturing meters, record the forensic integrity of the manufacturing meters and
log the usage of the manufacturing meters. The scanners are used to read and
determine the authenticity of the information printed on the tags or labels.

Detailed Description Text (10):
Bar code generator 45 will encode the information received from encryptor 43 to
create a unique encrypted bar code that is associated with the article that was
manufactured. Generator 45 is coupled to printer 54, which is located at the site
that produced the manufactured article. Generator 45 will cause printer 54 to print
a unique bar code on a product label or tag 55. The aforementioned bar code may be
visible or invisible to the unaided human eye. Label or tag 55 is affixed to the
manufactured article. The aforementioned bar code on tag 55 contains encrypted or
digitally signed data files representing information that is unique to the article
manufactured.

Detailed Description Text (11):
In order to ascertain if the article manufactured that has tag 55 affixed thereto
is genuine and not diverted from its intended logistics channel, the bar code on
tag 55 is scanned by scanner 56. The encrypted information contained in the bar
code printed on tag 55 is retrieved and then compared against information retrieved
from the scan of associated documents. For instance, scanner 56 may scan the
information contained in invoice 26. It will be obvious to one skilled in the art

that many different associates documents pertaining to the manufactured article may be scanned by scanner 56. If the scanned information on tag 55 matches or is correctly related to the scanned information on invoice 26 the manufactured article is in the correct distribution channel and the article is genuine. If, for example the scanned article is genuine, but the scanned article does not belong to the articles covered by invoice 26, then the manufactured article is a forgery or diverted genuine article.

First Hit   Fwd Refs   Previous Doc   Next Doc   Go to Doc#
End of Result Set

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L5: Entry 1 of 1   File: USPT   Aug 29, 2000

US-PAT-NO: 6111953
DOCUMENT-IDENTIFIER: US 6111953 A

TITLE: Method and apparatus for authenticating a document

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Walker; Jay S.	Ridgefield	CT		
Schneier; Bruce	Minneapolis	MN		
Jorasch; James A.	Stamford	CT		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Walker Digital, LLC	Stamford	CT			02

APPL-NO: 08/ 859722   [PALM]
DATE FILED: May 21, 1997

INT-CL: [07] H04 K 1/00

US-CL-ISSUED: 380/51; 380/55, 705/67, 713/179
US-CL-CURRENT: 380/51; 380/55, 705/67, 713/179

FIELD-OF-SEARCH: 380/23, 380/25, 380/30, 380/51, 380/55, 705/67, 713/179

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected   Search ALL   Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	3541960	November 1970	Dilsner et al.	
☐	4385285	May 1983	Horst et al.	
☐	4413951	November 1983	Allen, Jr.	
☐	4725718	February 1988	Sansone et al.	380/51
☐	4816655	March 1989	Musyck et al.	

☐	4893338	January 1990	Pastor	380/51
☐	5001752	March 1991	Fischer	380/30
☐	5090699	February 1992	Friedman	
☐	5142577	August 1992	Pastor	380/51
☐	5157726	October 1992	Merkle et al.	380/55
☐	5191613	March 1993	Graziano et al.	380/25
☐	5214702	May 1993	Fischer	380/30
☐	5239165	August 1993	Novak	
☐	5274567	December 1993	Kallin et al.	
☐	5341428	August 1994	Schatz	
☐	5373561	December 1994	Haber et al.	380/25
☐	5388158	February 1995	Berson	338/2.3
☐	5398283	March 1995	Virga	380/54
☐	5426700	June 1995	Berson	380/51
☐	5586036	December 1996	Pintsov	380/51
☐	5633932	May 1997	Davis et al.	380/51
☐	5652794	July 1997	Lepetit et al.	380/51
☐	5768384	June 1998	Berson	380/51
☐	5901224	May 1999	Hecht	380/51
☐	5912974	June 1999	Holloway et al.	380/51
☐	5923762	July 1999	Dolan et al.	380/51
☐	5923763	July 1999	Walker et al.	380/51
☐	5926551	July 1999	Dwork et al.	380/51

OTHER PUBLICATIONS

Barton Crockett, "Chase Readies Wholesale Image Service", The American Banker, Sep. 13, 1993 at p. 15.
"Secure Check -4+ Compatible With HP Laserjet 4 Plus", PC Business Products, Jul. 1994.
Vern Lysford, "Create-A-Check Software Review", Management Accounting (USA), Sep. 1994 at p. 71.
Paul J. Geary and R. David Randall, "Create-A-Check Software", Massachusetts CPA Review, Spring 1995 at p. 32.
Geoffrey Wheelwright, "New Ways to Beat the Fraudsters", Financial Times, Jul. 5, 1995 at p. 4.
"Photo Checks Reduces Fraud, Approves Checks", NCUA Watch, Feb. 19, 1996 at p. 5.
"Toppan Printing Develops Transparent Bar Code System", Japan Economic Newswire, May 29, 1996.
Tony Timmons, "Check Fraud Costs Local Businesses More Than $180 Million Annually", Central Penn Business Journal, Jul. 19, 1996 at p. 2.

ART-UNIT: 272

PRIMARY-EXAMINER: Cangialosi; Salvatore

ATTY-AGENT-FIRM: Alderucci; Dean Vogel; Peter J.

ABSTRACT:

A system is described whereby a document may be authenticated by an issuer thereof and verified by a recipient. Data from the document, at least a portion of which is specific to the document and identifies the document, is input to an authenticating device using an input device. A computing device, including a cryptographic processor and a memory, is coupled to said input device and receives a signal representing the data. The computing device performs a cryptographic operation based on the data to produce encrypted authentication data unique to the document. An output device is coupled to the computing device and affixes a representation of the authentication data on the document. A similar device, including a display device, is used to input the encrypted data, perform a cryptographic operation to decrypt the data, and compare the decrypted data with document identification data to verify the document. Encryption and decryption are performed using a private key/public key pair.

61 Claims, 5 Drawing figures

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L5: Entry 1 of 1   File: USPT   Aug 29, 2000

DOCUMENT-IDENTIFIER: US 6111953 A
TITLE: Method and apparatus for authenticating a document

<u>Brief Summary Text</u> (7):
U.S. Pat. No. 5,388,158 discloses an apparatus that affixes to a document a <u>label</u>
created by scanning the document and producing a digital signal; the digital signal
is compressed, <u>encrypted,</u> and coded as a two-dimensional bar code. This apparatus,
like those discussed just above, creates a digital representation of an image of
the document, as opposed to using specific data from the document.

<u>Detailed Description Text</u> (5):
example, physical features could include encapsulation, electronic features could
include a silicon firewall, and combination features could include self<u>-zeroizing,</u>
or otherwise volatile, ROM 104 or RAM 105 which electrically modifies its contents
upon detection of tampering. Such tampering might include physically stressing the
device, or electrically tampering by applying power to the device outside allowable
current or voltage ranges, or outside an allowable AC frequency range.
Alternatively, the housing 121 could be merely tamper-evident. In that case, the
process of document verification should include checking the device for evidence of
tampering. As will be appreciated by those skilled in the art, a great variety of
tamper-resistant or tamper-evident techniques can be deployed, and will not be
enumerated in detail herein. Therefore, as a matter of convenience, terms such as
"tamper resistant" or "secure" shall be understood to refer to any of the
aforementioned or other security measures throughout this discussion.

<u>Detailed Description Text</u> (6):
Besides the stamper 150, other devices for affixing the <u>encrypted</u> code to the
document may be used; for example, a <u>label</u> printer which prints the code on an
adhesive <u>label</u> and then sticks the <u>label</u> onto the document. The code itself may
take any of a number of forms, including a human-readable character string, a
graphic "watermark," a barcode sequence and a digital representation on a magnetic
medium on the document. The terms "code" or "stamped code" shall be understood to
refer to any such embodiment.

<u>US Reference Patent Number</u> (23):
5768384

CLAIMS:

22. A device according to claim 18, wherein the printer is configured for printing
the representation of the <u>encrypted</u> authentication data on a <u>label</u> and affixing the
<u>label</u> on the document.

46. A method according to claim 36, wherein said affixing step comprises printing
the representation of the <u>encrypted</u> authentication data on a <u>label</u> and affixing the
<u>label</u> on the document.

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